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**TITLE 675 FIRE PREVENTION AND BUILDING
SAFETY COMMISSION**

LSA Document #01-376(F)

DIGEST

Amends 675 IAC 14-4.2, the 2001 Indiana Residential Code, so as not to be in conflict with provisions of the 2002 Indiana Electrical Code, 675 IAC 17-1.6. Adds 675 IAC 17-1.6, which adopts by reference and amends the 2002 National Electrical Code 2002 edition first printing, and Errata to the First Printing (Errata date January 18, 2002), both published by the National Fire Protection Association, as the Indiana Electrical Code, 2002 Edition. Repeals 675 IAC 17-1.5. Effective 30 days after filing with the secretary of state.

675 IAC 14-4.2-181.1	675 IAC 14-4.2-192.2
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675 IAC 14-4.2-192.1	675 IAC 17-1.6

SECTION 1. 675 IAC 14-4.2-181.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-181.1 Section E3301.2; scope

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 181.1. Change Section E3301.2 to read as follows: Chapters 1 and 33 through 42 shall cover the installation of electrical systems, equipment, and components for the permanent heating, ventilating, air conditioning, electrical, plumbing, sanitary, emergency detection, emergency communication, or fire or explosion suppression systems that are part of a Class 1 structure-townhouse or Class 2 structure-1 and 2 family dwelling.

Exception: This section does not require the installation of an electrical system in Class 2 structures.
(*Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-181.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 11*)

SECTION 2. 675 IAC 14-4.2-182.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-182.1 Section E3302.2; penetrations of fire-resistance-rated assemblies

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 182.1. Delete “Section R320.2” in the last sentence and replace with “Section R321”. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-182.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 11)

SECTION 3. 675 IAC 14-4.2-185.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-185.1 Section E3306.5; individual conductor insulation

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 185.1. Delete the second sentence in Section E3306.5 without substitution. Delete the period after the last sentence and add “in accordance with Table E3605.1.”. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-185.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 11)

SECTION 4. 675 IAC 14-4.2-187 IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.2-187 Section E3401; general

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 187. Change Section E3401 as follows: (a) Delete the definition of APPROVED and substitute to read as follows: See the definition of APPROVED in SECTION R202.

(b) Delete the definition of BRANCH CIRCUIT, GENERAL PURPOSE and substitute: A branch circuit that supplies two (2) or more receptacles or outlets for lighting and appliances.

(c) Delete the definition of GROUND-FAULT CIRCUIT-INTERRUPTER and substitute: A device intended for the protection of personnel that functions to de-energize a circuit or portion thereof within an established period of time when a current to ground exceeds the values established for a Class A device.

~~(b)~~ **(d) Delete the definition of LABELED and substitute as follows: See the definition of LABELED in SECTION R202.**

~~(c)~~ **(e) Delete the definition of LISTED and substitute to read as follows: See the definition of LISTED AND LISTING in SECTION R202. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-187; filed May 23, 2001, 4:02 p.m.: 24 IR 3062; errata filed Jun 12, 2001, 2:18 p.m.: 24 IR 3070; filed Aug 14, 2002, 4:20 p.m.: 26 IR 11)**

SECTION 5. 675 IAC 14-4.2-187.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-187.1 Section E3501.6.2; service disconnect location

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 187.1. At the end of Section E3501.6.2, add a sentence to read as follows: “Conductors shall be considered outside of a building or structure under any of the following conditions:

- (1) where installed under not less than 51 mm (2 in.) of concrete beneath a building or other structure,**
- (2) where installed within a building or other structure in a raceway that is encased in concrete or brick not less than 51 mm (2 in.) thick, or,**

(3) where installed in conduit and under not less than 457 mm (18 in.) of earth beneath a building or other structure.”.

(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-187.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12)

SECTION 6. 675 IAC 14-4.2-187.2 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-187.2 Table E3503.1; service conductor and grounding electrode conductor sizing

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 187.2. Delete all references to insulation types without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-187.2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12)*

SECTION 7. 675 IAC 14-4.2-187.3 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-187.3 Section E3504.2.1; above roofs

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 187.3. In Exception 1, after “pedestrian”, insert “or vehicular”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-187.3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12)*

SECTION 8. 675 IAC 14-4.2-187.4 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-187.4 Section E3505.5; protection of service cables against damage

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 187.4. Delete “rigid nonmetallic conduit suitable for the location” and insert “Schedule 80 rigid nonmetallic conduit”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-187.4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12)*

SECTION 9. 675 IAC 14-4.2-190.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-190.1 Section E3602.10; branch circuits serving heating loads

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 190.1. In the second sentence, insert “25” to the list of circuit ratings. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-190.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12)*

SECTION 10. 675 IAC 14-4.2-190.2 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-190.2 Section E3602.12; branch circuits serving room air conditioners

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 190.2. In item 4, delete “or the rating of the branch-circuit conductors,”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-190.2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12)*

SECTION 11. 675 IAC 14-4.2-190.3 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-190.3 Section E3602.12.1; where no other loads are supplied

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 190.3. Delete “appliances are also supplied” and insert “loads are supplied”. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-190.3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12*)

SECTION 12. 675 IAC 14-4.2-190.4 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-190.4 Section E3602.12.2; where lighting units or other appliances are also supplied

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 190.4. Delete the text and substitute: The total marked rating of a cord-and-attachment-plug-connected room air conditioner shall not exceed 50 percent of the rating of a branch circuit where lighting outlets, other appliances, or general-use receptacles are also supplied. Where the circuitry is interlocked to prevent simultaneous operation of the room air conditioner and energization of other outlets on the same branch circuit, a cord-and-attachment-plug-connected room air conditioner shall not exceed 80 percent of the branch-circuit rating. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-190.4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 12*)

SECTION 13. 675 IAC 14-4.2-190.5 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-190.5 Section E3703.3; protection from damage

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 190.5. In the third sentence of Section E3703.3, delete “service laterals” and substitute “underground service conductors”. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-190.5; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13*)

SECTION 14. 675 IAC 14-4.2-191.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-191.1 Section E3801.4.5; receptacle outlet location

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 191.1. (a) Change the first statement to read: Receptacle outlets shall be located above, but not more than 20 inches (508 mm) above the countertop.

(b) In the first sentence of the exception, change “18 inches (458 mm)” to “20 inches (508 mm)”. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-191.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13*)

SECTION 15. 675 IAC 14-4.2-191.2 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-191.2 Section E3801.6; bathroom

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 191.2. Delete the second sentence and substitute: The receptacle outlet shall be located on a wall or partition that is adjacent to the basin or basin countertop. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-191.2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13*)

SECTION 16. 675 IAC 14-4.2-191.3 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-191.3 Section E3801.9; basements and garages

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 191.3. In the last sentence, change “in the unfinished portion” to “in each separate unfinished portion”. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-191.3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13)

SECTION 17. 675 IAC 14-4.2-191.4 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-191.4 Section E3802; ground-fault and arc-fault circuit-interrupter protection

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 191.4. Add Section E3802.7.1 after Section E3802.7 to read: Boathouses. All 125-volt, single-phase, 15- or 20-ampere receptacles installed in boathouses shall have ground-fault circuit-interrupter protection for personnel. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-191.4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13)

SECTION 18. 675 IAC 14-4.2-191.5 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-191.5 Section E3802.8; exempt receptacles

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 191.5. Change to read as follows: Receptacles installed under exceptions to Sections E3802.2 and E3802.5 shall not be considered as meeting the requirements of Section E3801.9. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-191.5; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13)

SECTION 19. 675 IAC 14-4.2-192.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-192.1 Section E3803.3; additional locations

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 192.1. In the second sentence, the third sentence, and the Exception, delete “egress door” and substitute “entrances or exits”. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-192.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13)

SECTION 20. 675 IAC 14-4.2-192.2 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-192.2 Section E3805.1; box, conduit body, or fitting; where required

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 192.2. In the first sentence, after “junction point”, insert “, termination point”. (Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-192.2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 13)

SECTION 21. 675 IAC 14-4.2-192.3 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-192.3 Section E3805.3.1; nonmetallic-sheathed cable and nonmetallic boxes

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 192.3. After “Where nonmetallic-sheathed cable”, insert “or multiconductor Type UF cable”. After

“¼ inch (6.4 mm)”, insert “and beyond any cable clamp”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-192.3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 22. 675 IAC 14-4.2-192.4 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-192.4 Section E3805.3.2; securing to box

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 192.4. In the exception, after “Where nonmetallic-sheathed”, insert “or multiconductor Type UF”. At the end of the exception, insert “Multiple cable entries shall be permitted in a single cable knockout opening”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-192.4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 23. 675 IAC 14-4.2-192.5 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-192.5 Section E3806.5; in wall or ceiling

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 192.5. In the first sentence, after “tile”, insert “, gypsum, plaster”. In the second sentence, after “combustible”, insert “surface”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-192.5; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 24. 675 IAC 14-4.2-192.6 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-192.6 Section E3806.8.2.1; nails

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 192.6. Change the section heading to “Nails and screws”. In the text, delete “Nails”, and insert “Nails and screws,”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-192.6; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 25. 675 IAC 14-4.2-193.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-193.1 Section E3808.8; types of equipment grounding conductors

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 193.1. Delete the first phrase in Item 1 and insert “A copper, aluminum, or copper-clad aluminum conductor”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-193.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 26. 675 IAC 14-4.2-193.2 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-193.2 Section E3901.3; indicating

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 193.2. In the second sentence, delete “single throw”. Add an exception to read as follows: “Vertically operated double-throw switches shall be permitted to be in the closed (on) position with the handle in either the up or down position”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-193.2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 27. 675 IAC 14-4.2-193.3 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-193.3 Section E3902.12; outdoor installation

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 193.3. Delete Section E3902.12 without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-193.3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 28. 675 IAC 14-4.2-193.4 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-193.4 Section E3903.11; fixtures in clothes closets

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 193.4. In Item 4, delete “on”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-193.4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 29. 675 IAC 14-4.2-193.5 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-193.5 Table E4103.5; overhead conductor clearances

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 193.5. In the second column, change “22” to “22.5”, and change “14” to “14.5”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-193.5; filed Aug 14, 2002, 4:20 p.m.: 26 IR 14)*

SECTION 30. 675 IAC 14-4.2-194.1 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.1 Section E4104.1; bonded parts

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.1. At the end of Item 1, add a sentence to read as follows: Where reinforcing steel is encapsulated with a nonconductive compound, provisions shall be made for an alternative means to eliminate voltage gradients that would otherwise be provided by unencapsulated, bonded reinforcing steel. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 31. 675 IAC 14-4.2-194.2 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.2 Section E4106.8.2; other enclosures

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.2. Add requirement 6 to read as follows: 6. Comprised of copper, brass, suitable plastic, or other approved corrosion-resistant material. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 32. 675 IAC 14-4.2-194.3 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.3 Section E4106.9.2; wiring methods

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.3. In the first sentence, after “corrosion-resistant metal,” insert “, liquidtight flexible nonmetallic conduit (LFNC-B),”. In the second sentence, after the words “rigid nonmetallic conduit,” insert “or liquidtight flexible nonmetallic conduit”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 33. 675 IAC 14-4.2-194.4 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.4 Section E4106.10; electrically operated pool covers

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.4. Add a sentence to read as follows: The device that controls the operation of the motor for an electrically operated pool cover shall be located so that the operator has full view of the pool. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 34. 675 IAC 14-4.2-194.5 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.5 Section E4106.12.2; permanently wired radiant heaters

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.5. After the second sentence, delete the period and insert “unless otherwise approved”. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.5; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 35. 675 IAC 14-4.2-194.6 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.6 Section E4201.2; definitions

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.6. Before the definition of Class 2 circuit, insert “ABANDONED CLASS 2 CABLE” and its definition to read as follows: Installed Class 2 cable that is not terminated at equipment and not identified for future use with a tag. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.6; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 36. 675 IAC 14-4.2-194.7 IS ADDED TO READ AS FOLLOWS:

675 IAC 14-4.2-194.7 Section E4201.3; spread of fire or products of combustion

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 194.7. Add a new section E4201.3 to the end of section E4201 to read as follows: E4201.3 Spread of fire or products of combustion. The accessible portion of abandoned Class 2 cables shall not be permitted to remain. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.2-194.7; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

SECTION 37. 675 IAC 17-1.6 IS ADDED TO READ AS FOLLOWS:

Rule 1.6. Indiana Electrical Code, 2002 Edition

675 IAC 17-1.6-1 Adoption by reference

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 1. That certain document, being titled as National Electrical Code, 2002 edition, First printing and Errata to the First Printing (Errata date January 18, 2002), both published by the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts 02269, is hereby incorporated by reference and made a part of this rule, except those portions as are amended and adopted in sections 3 through 26 of this rule. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-1; filed Aug 14, 2002, 4:20 p.m.: 26 IR 15)*

675 IAC 17-1.6-2 Title; availability

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 2. (a) This rule shall be known as the Indiana Electrical Code, 2002 edition, and shall be published, except for incorporated documents, by the fire and building services department for general distribution and use under the title. Whenever the term “this code” is used within this rule, including incorporated documents, it shall mean the Indiana Electrical Code.

(b) This rule, with the incorporated National Electrical Code, 2002 edition, is available for review and reference at the Fire and Building Services Department, 402 West Washington Street, Room W246, Indianapolis, Indiana 46204. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-2; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)*

675 IAC 17-1.6-3 Article 80; administration and enforcement

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 3. Article 80 is deleted in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-3; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)*

675 IAC 17-1.6-4 Section 90.2; scope

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 4. Section 90.2 is amended to read as follows: (A) Covered. This code covers: Installations of electric conductors and equipment within or on Class 1 and Class 2 structures, including industrialized building systems, and other premises wiring covered by rules of the Commission in this title.

Class 1 and Class 2 Structures covered by the Indiana Residential Code shall be made to comply with the provisions of this code, or the electrical provisions of the Indiana Residential Code (675 IAC 14).

(B) Not Covered. This code does not cover:

(1) Installations in ships, watercraft, railway rolling stock, aircraft, automotive vehicles, and buildings or structures that are not Class 1 or Class 2 structures.

(2) Installations underground in mines.

(3) Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communication purposes.

(4) Installations of communication equipment under the exclusive control of communication utilities, located outdoors or in building spaces used exclusively for such installations.

(5) Installations, including associated lighting under the exclusive control of electric utilities for the purpose of communication, or metering; or for the generation, control, transformation, transmission, and distribution of electric energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility or on public highways, streets, roads, etc., or outdoors on private property by established rights such as easements.

(6) Installations of electrical wiring, equipment, and devices, factory installed in manufactured homes

under the authority of the U.S. Department of Housing and Urban Development (HUD).
(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-4; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)

675 IAC 17-1.6-5 Section 90.4; enforcement

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 5. Section 90.4 is amended to read as follows: Requirements covering enforcement, granting of variances, and approval of alternate methods or materials are covered in Indiana statutes and 675 IAC 12, the General Administrative Rules of the Commission. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-5; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)*

675 IAC 17-1.6-6 Section 90.6; formal interpretations

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 6. Section 90.6 is deleted in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-6; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)*

675 IAC 17-1.6-7 Section 90.7; examination of equipment for safety

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 7. Section 90.7 is deleted in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-7; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)*

675 IAC 17-1.6-8 Section 90.8; wiring planning

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 8. Section 90.8 is deleted in its entirety without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-8; filed Aug 14, 2002, 4:20 p.m.: 26 IR 16)*

675 IAC 17-1.6-9 Section 90.9; units of measurement

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 9. Delete the text of Section 90.9 and substitute the following: For the purpose of this code, the measurement system is the English (U.S. customary or inch-pound) system. Compliance with the numbers shown in the inch-pound system shall constitute compliance with this code. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-9; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-10 Article 100; definitions

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13-2-7; IC 22-13-2-11; IC 22-14-2-10; IC 22-15-2-7; IC 36-7-2-9; IC 36-8-17-9

Sec. 10. (a) In Part 1 of Article 100, delete the text of the definition of APPROVED and substitute to read as follows: APPROVED. Acceptance by the AUTHORITY HAVING JURISDICTION by one (1) of the following methods:

(1) investigation or tests conducted by recognized authorities; or

(2) investigation or tests conducted by technical or scientific organizations; or accepted principles.

The investigation, tests, or principles shall establish that the materials, equipment, and types of construction are safe for their intended purpose.

(b) In Part 1 of Article 100, delete the text of the definition of AUTHORITY HAVING JURISDICTION

and substitute to read as follows: **AUTHORITY HAVING JURISDICTION.** The office of the state building commissioner authorized under IC 22-15-2-7; the office of the state fire marshal authorized under IC 22-14-2-10; the local building official authorized under IC 36-7-2-9 and local ordinance; the fire department authorized under IC 36-8-17-9.

(c) In Part 1 of Article 100, after the definition of **ISOLATED**, add the definition of **KITCHEN** to read as follows: **KITCHEN** means an area used, or designated to be used, for the preparation of food.

(d) In Part 1 of Article 100, delete the text of the definition of **SPECIAL PERMISSION** and substitute to read as follows: **SPECIAL PERMISSION.** A variance granted by the commission under IC 22-13-2-11 or a variance granted by a political subdivision and approved by the commission under IC 22-13-2-7(b). *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-10; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-11 Section 110.26; working clearances

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 11. Change Section 110.26(A)(1)(b) to read as follows: When approved, smaller spaces may be permitted where all uninsulated parts are at a voltage no greater than 30 volts RMS, or 42 volts peak, or 60 volts DC. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-11; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-12 Section 210.12; arc-fault circuit-interrupter protection

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 12. In Section 210.12(B), Dwelling unit bedrooms, delete “outlets” and insert “receptacle outlets”. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-12; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-13 Section 210.60; guest rooms

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 13. The first sentence in Section 210.60(A) is amended to read as follows: Guest rooms in hotels, motels, health care facilities, and similar occupancies shall have receptacle outlets installed in accordance with Section 210.52(A) and 210.52(D). *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-13; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-14 Section 230.2; number of services

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 14. (a) Change the second sentence of Section 230.2 to read as follows: For the purpose of Section 230.40, Exception No. 2 only, underground sets of conductors, size 1/0 AWG and larger, running to the same location as close as practical and connected together at their supply end, but not connected together at their load end, shall be considered to be one (1) lateral.

(b) Amend Section 230.2(B) Special occupancies, by deleting “By special permission” and inserting “When approved”. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-14; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-15 Section 230.40; service-entrance conductors

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 15. Change the second exception to Section 230.40 to read as follows: Exception No. 2: Where two (2) to six (6) service disconnecting means in separate enclosures are grouped as close as practical at one (1) location and supply separate loads from one (1) service drop or lateral, one (1) set of service-entrance conductors shall be permitted to supply each or several such service equipment enclosures. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-15; filed Aug 14, 2002, 4:20 p.m.: 26 IR 17)*

675 IAC 17-1.6-16 Section 250.104; bonding of piping and exposed structural steel

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 16. In the first sentence of Section 250.104(B), delete “including gas piping,” and insert “other than gas piping.” At the end of Section 250.104(B), add a sentence to read as follows: All aboveground metal gas piping upstream from the equipment shutoff valve shall be electrically continuous. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-16; filed Aug 14, 2002, 4:20 p.m.: 26 IR 18)*

675 IAC 17-1.6-17 Table 314.16(A); metal boxes

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 17. In the line for 4 x 1-1/4-inch round/octagonal boxes and in the column for 8AWG conductor, delete “5” and insert “4”. In the line for 3-3/4 x 2 x 3-1/2-inch masonry box/gang boxes and in the column for 6AWG conductor, delete “2” and insert “4”. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-17; filed Aug 14, 2002, 4:20 p.m.: 26 IR 18)*

675 IAC 17-1.6-18 Section 334.10; uses permitted

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 18. (a) Delete the text of (2) in Section 334.10 and substitute: (2) In any building or structure not exceeding three (3) stories (see Section 362.10 for the definition of STORY).

(a) For exposed work except as prohibited in Section 334.12.

(b) Concealed within walls, floors, and ceilings except as prohibited in Section 334.12.

(b) Delete the text of (3) in Section 334.10 and substitute: (3) In any building or structure exceeding three (3) stories (see Section 362.10 for the definition of STORY), Type NM, Type NMC, and Type NMS cables shall be concealed within walls, floors, and ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating identified in listings of fire-rated assemblies. The 15-minute-finish-rated thermal barrier shall be permitted to be used for combustible walls, floors, and ceilings, except as prohibited in Section 334.12.

Exception: Where the building is provided with an approved automatic sprinkler system throughout, Type NM, Type NMC, and Type NMS cables are permitted to be used within walls, floors, ceilings, exposed or concealed, in buildings exceeding three (3) stories.

(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-18; filed Aug 14, 2002, 4:20 p.m.: 26 IR 18)

675 IAC 17-1.6-19 Section 334.12; uses not permitted

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 19. In Section 334.12(A), delete Item 1 without substitution. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-19; filed Aug 14, 2002, 4:20 p.m.: 26 IR 18)*

675 IAC 17-1.6-20 Section 362.10; uses permitted

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 20. (a) Delete the first two (2) sentences of text in Uses Permitted and substitute to read as follows: For the purpose of this section a story is that portion of a building included between the upper surface of any floor and the upper surface of the floor next above, except that the topmost story shall be that portion of a building included between the upper surface of the topmost floor and the ceiling or roof above. If the finished floor level directly above a usable or unused under-floor space is more than 6 feet (1,829 mm) above grade for more than 50 percent of the total perimeter or is more than 12 feet (3,658 mm) above grade at any point, such usable or unused under-floor space shall be considered as a story.

(b) In Item (1) under Uses Permitted, delete “floors above grade” and substitute “stories”.

(c) In Item (2) under Uses Permitted, delete “floors above grade” and substitute “stories”.

(d) Delete the text of the exceptions to Items (2) and (5) and substitute to read as follows: Where the building is provided with an approved automatic sprinkler system throughout, ENT is permitted to be used within walls, floors, and ceilings, exposed or concealed, in buildings exceeding three (3) stories. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-20; filed Aug 14, 2002, 4:20 p.m.: 26 IR 18)*

675 IAC 17-1.6-21 Section 362.12; uses not permitted

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 21. In Item (7) under Uses not permitted, add 362.10(2) to the listed sections. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-21; filed Aug 14, 2002, 4:20 p.m.: 26 IR 18)*

675 IAC 17-1.6-22 Section 525.5; overhead conductor clearances

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 22. Change Section 525.5(B) to read as follows: (B) Clearance to Rides and Attractions. Amusement rides and amusement attractions shall be maintained not less than 3.048 m (10 ft) in any direction from overhead conductors operating at 600 volts or less, except for the conductors supplying the amusement ride or attraction. Amusement rides or attractions shall not be located within 4.57 m (15 ft) horizontally of conductors operating in excess of 600 volts. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-22; filed Aug 14, 2002, 4:20 p.m.: 26 IR 19)*

675 IAC 17-1.6-23 Section 547.1; scope

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 23. Change Section 547.1 to read as follows: The provisions of this section shall apply to the following agricultural buildings or that part of a building or adjacent areas of similar or like nature as specified in (A) and (B) below, unless the building is not a Class 1 structure. Agricultural buildings that are not Class 1 structures may be regulated by local ordinance. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-23; filed Aug 14, 2002, 4:20 p.m.: 26 IR 19)*

675 IAC 17-1.6-24 Section 550.25; arc-fault circuit-interrupter protection

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 24. Delete the text of Section 550.25(B), Bedrooms of Mobile Homes and Manufactured Homes, and substitute to read as follows: All branch circuits that supply 125-volt, single-phase, 15- and 20-ampere receptacle outlets installed in bedrooms of mobile homes and manufactured homes shall be protected by an arc-fault circuit-interrupter listed to provide protection of the entire branch circuit. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-24; filed Aug 14, 2002, 4:20 p.m.: 26 IR 19)*

675 IAC 17-1.6-25 Section 550.4; general requirements

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 25. Section 550.4(B) is amended by adding a second sentence to read as follows: Modular homes, constructed under 675 IAC 15, Industrialized Building Systems, shall comply with the provisions of Article 545 of this code. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-25; filed Aug 14, 2002, 4:20 p.m.: 26 IR 19)*

675 IAC 17-1.6-26 Section 600.1; scope

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 26. Section 600.1 is amended to read as follows: This section covers the installation of conductors and equipment for electric signs and outline lighting as defined in Article 100 that are within or connected to Class 1 or Class 2 buildings or structures. *(Fire Prevention and Building Safety Commission; 675 IAC 17-1.6-26; filed Aug 14, 2002, 4:20 p.m.: 26 IR 19)*

SECTION 38. 675 IAC 17-1.5 IS REPEALED.

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